Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method of fabricating a semiconductor device comprising:

providing a semiconductor wafer having a first surface and a second surface opposite of the first surface, the first surface having a plurality of circuit elements each of which is defined by scribe lines formed in the semiconductor wafer;

forming a sealing resin on the first surface of the semiconductor wafer;

forming a plurality of external terminals on the first surface of the semiconductor wafer, wherein the external terminals respectively electrically connect to the circuit elements and project from the sealing resin;

forming a heat spreading material on the second surface of the semiconductor wafer, after said forming the sealing resin; and

separating the semiconductor wafer at the scribe lines after the heat spreading material is formed on the second surface of the semiconductor wafer.

Claim 2 (Original): The method according to the claim 1, further comprising polishing

the second surface of the semiconductor wafer before said forming the heat spreading

material.

Claim 3 (Original): The method according to the claim 1, further comprising forming a

heat conductor on the second surface of the semiconductor wafer, before said forming

the heat spreading material.

Claim 4 (Withdrawn): The method according to the claim 1, wherein said separating

includes removing the heat spreading material from the scribe lines and then cutting the

semiconductor wafer.

Claim 5 (Withdrawn): The method according to the claim 4, wherein the heat spreading

material on the scribe lines is removed using a first blade, and the semiconductor wafer

is cut using a second blade, wherein a speed of rotation of the first blade is slower than

a speed of rotation of the second blade, a width of the first blade is wider than a width

of the second blade, and a density of diamonds embedded in the first blade is higher

than a density of diamonds embedded in the second blade.

Claim 6 (Currently Amended): A method of fabricating a semiconductor device

comprising:

providing a semiconductor wafer having a first surface and a second surface

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opposite of the first surface, the first surface having a plurality of circuit elements each of which is defined by scribe lines formed in the semiconductor wafer;

forming a sealing resin on the first surface of the semiconductor wafer;

forming a plurality of external terminals on the first surface of the semiconductor wafer, wherein the external terminals respectively electrically connect to the circuit elements and project from the sealing resin;

selectively forming a heat spreading material on the second surface of the semiconductor wafer, after said forming the sealing resin, wherein the scribe lines are exposed from the heat spreading material; and

separating the semiconductor wafer at the scribe lines after the heat spreading material is formed on the second surface of the semiconductor wafer.

Claim 7 (Withdrawn): The method according to the claim 6, wherein said selectively forming the heat spreading material includes forming a first mask that covers the scribe lines, and then forming the heat spreading material on the second surface using the first mask.

Claim 8 (Withdrawn): The method according to the claim 7, wherein the first mask is removed after forming the heat spreading material.

Claim 9 (Withdrawn – Currently Amended): The method according to the claim 8,

further comprising forming a second mask on the scribe [[line]] <u>lines</u> after forming the first mask, wherein the second mask is removed before removing the first mask.

Claim 10 (Withdrawn): The method according to claim the 9, wherein the first mask is a photoresist material and the second mask is a metal mask.

Claim 11 (Withdrawn): The method according to the claim 8, further comprising forming a second mask on the peripheral area of the semiconductor wafer after forming the first mask, wherein the second mask is removed before removing the first mask.

Claim 12 (Withdrawn): The method according to the claim 11, wherein the first mask is a photoresist material and the second mask is a metal mask.

Claims 13-18 (Canceled)

Claim 19 (New): The method according to claim 1, wherein a thickness of the heat spreading material ranges from 5 µm to 200 µm.

Claim 20 (New): The method according to claim 1, wherein the heat spreading material includes ceramic powder.

Claim 21 (New): The method according to claim 1, wherein the heat spreading material is supplied on the second surface by spray coating.

Claim 22 (New): The method according to claim 1, wherein the heat spreading material is supplied on the second surface by printing.

Claim 23 (New): The method according to claim 1, wherein said forming the heat spreading material includes supplying liquid type heat spreading material on the second surface and solidifying the liquid type heat spreading material.

Claim 24 (New): The method according to claim 6, wherein a thickness of the heat spreading material ranges from 5 µm to 200 µm.

Claim 25 (New): The method according to claim 6, wherein the heat spreading material includes ceramic powder.

Claim 26 (New): The method according to claim 6, wherein the heat spreading material is supplied on the second surface by spray coating.

Claim 27 (New): The method according to claim 6, wherein the heat spreading material is supplied on the second surface by printing.

Claim 28 (New): The method according to claim 6, wherein said forming the heat spreading material includes supplying liquid type heat spreading material on the second surface and solidifying the liquid type heat spreading material.

Claim 29 (New): A method of fabricating a semiconductor device comprising:

providing a semiconductor wafer having a first surface and a second surface opposite of the first surface, the first surface having a plurality of circuit elements each of which is defined by scribe lines formed in the semiconductor wafer;

forming a sealing resin on the first surface of the semiconductor wafer;

forming a plurality of external terminals on the first surface of the semiconductor wafer, wherein the external terminals respectively electrically connect to the circuit elements and project from the sealing resin;

forming a material film that covers the second surface of the semiconductor wafer, the material film having a heat radiating ratio that is greater than a heat radiating ratio of the semiconductor wafer; and

separating the semiconductor wafer at the scribe lines after the heat spreading material is formed on the second surface of the semiconductor wafer.

Claim 30 (New): The method according to claim 29, wherein the material film includes ceramic powder.

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Claim 31 (New): The method according to claim 29, further comprising forming a heat

conduction film on the second surface of the semiconductor wafer, before said forming

the material film, so that the material film is formed on the heat conduction film.

Claim 32 (New): The method according to claim 31, wherein the heat conduction film is

a metal.